

SEQUENCE LISTING

```
<110 > NAKAJIMA. TOSHIHIRO
     TSUTIMOCHI, KANEYUKI
     YAGISHITA, NAOKO
     YAMASAKI, SATOSHI
     KATO, YUKIHIRO
      AMANO. TETSUYA
     TAMITSU, KAORI
<120> DECOY NUCLEIC ACID TO SYNOVIOLIN GENE PROMOTER
<130> L7350.0012
<140> 10/594.146
<141> 2006-09-26
<150> PCT/JP05/006527
<151> 2005-03-28
<150> JP 2004-92570
<151> 2004-03-26
<160> 18
<170> PatentIn Ver. 3.3
<210> 1
<211> 3046
<212> DNA
<213> Mus musculus
<400> 1
gcaagagace ttattttqtt tttcqagaca gggtttetet gtgtageeet ggetgteeta 60
gaactcactc tgtagaccag getgqcctcg aactcagaaa tccgcctgcc tctgcctccc 120
gagtgctggg attaaaggta ggcgccacca cgcccagctt tttttttt aqataggatc 180
tcactctata getgtacget ggcetcagat ttatgatget etteetgeet cagtetecca 240
gagtagacet gaactgaaga ccagacaagg gagccetece tegacatett ggggccaggg 360
aagttgaagc cataggatca gaggaaatgt ggcaagaaaa aaggccaaca tggacacaga 420
acttaaataa aaacagacag aggaagtaag acagatatat acctggggga gaggagggat 480
tgccacaaaa tgtaggagat tttcaagaat gggggaggat gagtgtgtag ggttaaaggt 540
agccagtaga agttcatagc tagccttatg gaggaaggaa aggggagcca tctcgggatg 600
ttaactqtta aaqacaacaq qtggtggtga agatggctga gaccaagagc acagggctga 660
ggggcagaca ggcactgaca ctgctaccet ttaatacagt tcctcctgtt gtgatcccca 720
accataatta cttcgttgct acttcataac tgtaattttg ctagttatga attgtaagta 780
aacgtctgat atgcaggata tctcatttgt gacccctgtg taacggtttg attcccaaag 840
ggcttacgac tcacaggttg agagccagcc actgccttaa agtcgtctag aatcagtttt 900
ctttcttttt tgacagacaa gatgtttaat tccgttgtac tgaaggaaag ccattttatg 960
tatttttctt aagtgctcta tcagtaatga caattctgaa agcccctgtg ttatatttta 1020
```

acaacacagt cactooggt totgtattoa otgtoogtgt tgtgactoc acagtataaa 1080 ttcctocagt tgatcttcat gaattettat atttgatece coccocctt aggoctctga 1140 attccgagtg agtccgagtt aaaaatggga gaagcacct ctagctgata aacctgggta 1200 atgaggtgtc cgctttcagt ttccattctg tacgcgacta tactgcttgt gtgagcccta 1260 acagacagaa tcagctcaga acaaagggt tggctatct ccacgggatga acagcaccg 1230 cgactgagct tttggggtgt tgaaaagtca acgccttcga acagaactct ccaccccaa 1380 ctagaaataa otgggttct gtttatgtc agtccggaca gcaagcact gtcctttt 1440 cqqqccccqt aaqaatccc ccacccc ccaqqqqa taqqqatcc cggcctatga actgcgcttt 1500

```
ctcagctggc atccagctgc cttggcaccc agtccggggc cactctgcct acagacccta 1560
ggaaggacte acctgetttt ettteectat aggccagaaa ttttteettt ettttetat 1620
tggtccgcgt aactitatcg caaccaatcg gcggtacacg ggaacaaact cactcctaca 1680 caacctgcgt tgggggagg taacctggga agacctatat ctgttttctg caccgctatt 1740
tttttccgag aagcacttaa cttcttaccg tgtcgtagct atccctggaa tgaggcgctt 1800
acacatttta tttctttcat qcctqacata aagtctggcc cttgctcgct cctgcccccc 1860
gtccaaatgg ctcggcccgc ggaacgccca tcttccaggc acattgagag ccggagtctt 1920
ggagggagtt tagggtggtg attctacaac ggcgactagc aagtggcggg cttcagccct 1980
ttcccqctqc tctctgqtc gcgaccacac gtcacagctc tcgctcgttc cggttgctcg 2040
cgcaggggt ggggagtgtt gttaaccgga gcggctgccg cagtcgcggt gattgagcgt 2100
actocgocgo goooggoo googgaagtg aggtgtotta coccogaagt tooggttogo 2160
agggggtggg gagtgttgtt aaccggagcg gctgccgcag tcgcggtgat tgagcgtgct 2220
cgcggcgctg ggctcctggt gagtgggcct ggtcctgatt ggggttgggg ggtcggcgtc 2280
taggacettg teetttgggg teactgegat cageeegeee egetgegtte ggeegeeagt 2340
tttcggcctg tcagatggct ggagacctta ggcggcggcg cggccaccgt tccagaggcc 2400
gggccccgcc tgcgaggttc gcaactccta gcgttcacag gtgcgcgact gtgaggcgac 2460
ctgactggtt ctcagccccg ccgccgcacc ctggcggtcg gccgtttctc cggttctcag 2520
agtggacact gctgggggcg ggggggggg cagggttcca gactgacgta ccccgatggg 2580
egegetetg egetgaceae eetggeacag etgteaetgg ttgtgtegee tteteaaget 2640
gtgccctctg caccttgcct cctccacccc tggcgggccc agcgaacctg cctctaaagc 2700
ctatcatoco agotocttoa gagggtoago ggtggoagoo cocctoctoc taactttgco 2760
tcagtgactc cctagaggag gcgccttggc agacagcgtg gaagagccct agatttgaaa 2820
cgagattgat ccaagttcta ggccttgcat cagtgtgagc ctctaacccc tttgagtcct 2880
agtttctcgt ttgtgaaaca gggagtatat gctgttttga atctaatggc tgtcaaggtg 2940
aaatgagtgt ttgcccttac actctgccag ggactgtgct aggtttacat agtgtggata 3000
tcacaaatgt cattttcctt gtgcaggtct ctgggccagg gcgatg
                                                                     3046
```

<210> 2 <211> 3092 <212> DNA

<213> Homo sapiens

ttggctcata acctcacttc ctttaagtct ttgctcaaat gtcaccttct caaggaagct 60 taccogatta tectogotga tactgoaaco agottoaagt accocaccac atootgatee 120 cetttattet gttetaettt ttteetatag caetgateat etteeagegt attagatttt 180 tcacttatgt ctgtggtttg ctgtcacatc tactaggata agctccacaa aggtagagat 240 ctttattttg ttcactgaca tcctaagtcc ctagaacagg agacacttga tccatatttg 300 tagactaact gaataaatga cttaattacc agtttggatg tgggggcaga tagtgagcat 360 gatgcccgtt tccggagctg gggtgcagac agtgtctagg gacactgaac tgttttaaaa 420 gcaggataga teceggetgg agaccacaca aggaaateat cagcacetgg gtcagggget 480 ggactggagc agaggaaatc atgcaggaaa agtaaagaga aggacatcag gtaaagagaa 540 gaggacacat gcatagccag agagaaaaga ggagcagagg catgtggatc acagaagctt 600 agggaggaga ctttcaagaa ggggagagag gttgagtcaa gcaagggctg aaagccaacc 660 attggatgca gtcactagaa agttacagat aggcaaggtg ttgtggctca cgcctgtaat 720 cccaacacct tgtggggctg aggtgggagg atcgcttgag cccgggaggt cgaggctgca 780 atgagecetg atggegecaa tgeactecag cetgggegae agageaagae cetgtegeaa 840 aaattaataa ataaataaat aaaaagaaaa gggggaaaaa aagttatacg tggccttacg 900 qqqaaqccaa ctctgactgg ttataagctg aaactgtcaa gtcaacaggt ggcagggaag 960 atggctgaga ccaacagcac agagatttag aggcagacag acctggcgcc aatcctagga 1020 caggttttgg taagcctttg aatttcaatt gccccacgtt tcgggggagg gggtagcacc 1080 ccctagctca taaaccttag tgattgatga ttaaatgaga tgacggagga aaacgcaagg 1140 cacaaagtgg atgcattagc tccattttgt taatcagcag gcttagttgg ctgcgaccca 1200 gacacgaact aaaatacagt gcagcccagg accagtgggg gtcttgctta tggctcagag 1260 ctgaacaaca catgggcagc aaaatcagac actgagatgc gggcaggcct gcgacgctga 1320 agtcaattcc tttgaacaaa cagaacactt ccgtcccaag attagcagga attaatctcc 1380 cagtotoggg tacacotggt tgtccctccc tgtcctggcg cggcaaacgt tcccggaggc 1440

```
caqccaqqqa tcactcgccc aaggactgag ctttccctac tctcagccaa ctggagcggg 1500
accaggget aggeaacgea getgteegee ectaacaacc acteacetge titeccettt 1560
ctataggcca gcaaaggtac attetttte ttattgggcc gcgtaactta tcgcaaccaa 1620
teagtggcag ccaegggace caactcacte ccaeacaact tgtgggggtg atcatggaga 1680
agacaaattt ttgttttccg catccagttc tctcagagag caccqtattt qtcaaactqt 1740
tqtqactctc cctaaatqtt taaqaaaaca tttcattccc ctcaggcttq tataqtctqt 1800
ccctggccta ctccccgctc caggtggtac ageccgcaag cqqctcccct tcccaqctqc 1860
tegeggggee gagteeecca qteegaggag gecacteage geaggageea taccatetgt 1920
gactaataaa taataggggg acctccgact ccccctgtt gccttattac cttccgacca 1980
ceteteggae etettgeeca gecetteece gtagacatca ecceagatae ggtggtgaca 2040
ccattgctat gggcccacgt agggcgcagt gcgagccagg gcaggacgca cttggtacga 2100
cccacgccgc geeeegegee geeggaagtg aggtgtetga ceeeegaagt teeggttege 2160
agggggtggg gagtgttgtt aaccggaggg gcagccgcag tcgcgcggat tgagcgggct 2220
cgcggcgctg ggttcctggt gagtggggcg aagtctggcc cgagttgtgg ttggggtcgg 2280
gaccegaace tteecettga ggteteegga gteggeacge eceteageee egeegeacge 2340
tttcggcctg tcagctggcc ggagacctca gacgccggtg cggccgcttt gctcaagcct 2400
gggccctgcc tgcgacgccc gcaactcctg gtgctcacag gtgcgcggcc gcgagggcga 2460
gttgacacta ctccgggggt cgggggaccc caggattcca ggctgacgtt ccccqcccgc 2580
tecegeaggg egggeteeg aactgeeeae eetaacacag etgteacegg egetgtegee 2640
tgcccagect getatectet gtgccttgge tgctctcage cetggctgcg cattcccgcc 2700
cctggagcag atttctgctg ttgcctccca ccccatcttc tccaccggag ggtcagcggt 2760
quagetecce etectecaae attgeagett tteeteatea eeteeetaga ggaggegget 2820
tggcaggcag cgtggaaaga gccctagatt tgaagcaaga ctgacccagg ttccaggcct 2880
tgcqtcaqtq tgatcactta accccttcga gtctaatttg taaaatgggg tagcgtaagc 2940
tattetttgt etgatgattt egagggegaa atgtgattte ecceccaett teteetatga 3000
attgaggetg tgccaggcac cgggctattt tgcacagcac gagcatcaca taagttattt 3060
tettqeecca tqeaqqtete egggeeaggg ca
<210> 3
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      primer
<400> 3
                                                                 19
gcgccgccqt aagtgaggt
<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      primer
 <400> 4
```

aagtgagttg tettaceec

20

```
<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      primer
<400> 5
                                                                   20
actecgecaa geeeegegee
<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
<400> 6
                                                                    20
ccccgcgccg ccggaagtgt
<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      probe
<400> 7
                                                                    20
ccccgcgccg ccgtaagtgt
<210> 8
<211> 11
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide
<400> 8
                                                                    11
gccggaagtg a
<210> 9
<211> 6
<212> DNA
<213> Artificial Sequence
```

<220> <223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400> tgaggt		6
<210> <211>		
<212>		
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>		
geege	geeee	10
<210>	11	
<211>	20	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	11	
gcgcc	gccgg aagtgaggtg	20
<210>		
<211>		
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	12	
cacct	cactt ccggcggcgc	20
<210>	13	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	. 13	
	gtacc ctacttagcc	20
٠.	-	

```
<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide
<400> 14
                                                                   20
ggctaagtag ggtacggcaa
<210> 15
<211> 101
<212> DNA
<213> Homo sapiens
<400> 15
cccacgeege geccegegee geeggaagtg aggtgtettt acccccgaag ttccggtteg 60
cagggggtgg ggagtgttgt taaccggagg ggcagccgca g
<210> 16
<211> 101
<212> DNA
<213> Mus musculus
<400> 16
actecgeege geoecgegee geoggaagtg aggtgtetet acceeegaag tteeggtteg 60
                                                                    101
cagggggtgg ggagtgttgt taaccggagc ggctgccgca g
<210> 17
<211> 11
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide
<400> 17
                                                                    11
qccqtaaqtq a
<210> 18
<211> 10
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide
```